

Fluid Motor

ABSTRACT OF THE DISCLOSURE

The piston of a fluid motor divides the cylinder into two variable volumes into which and from which fluid may be selectively introduced and exhausted via ports through the cylinder to relatively move the piston and the cylinder. The piston is modified to define two fixed-volume chambers that respectively communicate with the variable volumes via restrictive orifices. In selected relative piston-cylinder positions, the chambers communicate with the ports to restrict fluid flow into and out of the variable volumes and to decrease the velocity of relative piston-cylinder movement. In other relative piston-cylinder positions, the chambers do not communicate with the ports and fluid enters and leaves the variable volumes directly through the ports to relatively move the piston-cylinder at a higher velocity.